After Sales Technical Documentation

Appendix 1 – Transceiver THX–41

Chapter 2

TRANSCEIVER THX–41

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CONTENTS

	Page No
Introduction	2–3
System Module	2–3
Display Module	2–3
Assembly Parts	2–5
System Module (KS3) Parts List (Version 6)	2–6
Display Module (KL2) Parts List	2–18
System Module (KS3) Parts List (Version 11)	2–19

List of Figures

Figure 1: Exploded View of Transceiver THX–41 2–4

Introduction

The THX–41 transceiver, together with battery packs BTH–8S and BTH–8H, ensures all the desirable features e.g. alphanumeric display and keypad, menu–control, shortcode memory facility with 98 locations, retractable antenna etc. are available in a very small and light cellular handportable.

The transceiver consists of two modules: a system module and a display module.

System Module

The system module performs the following functions:

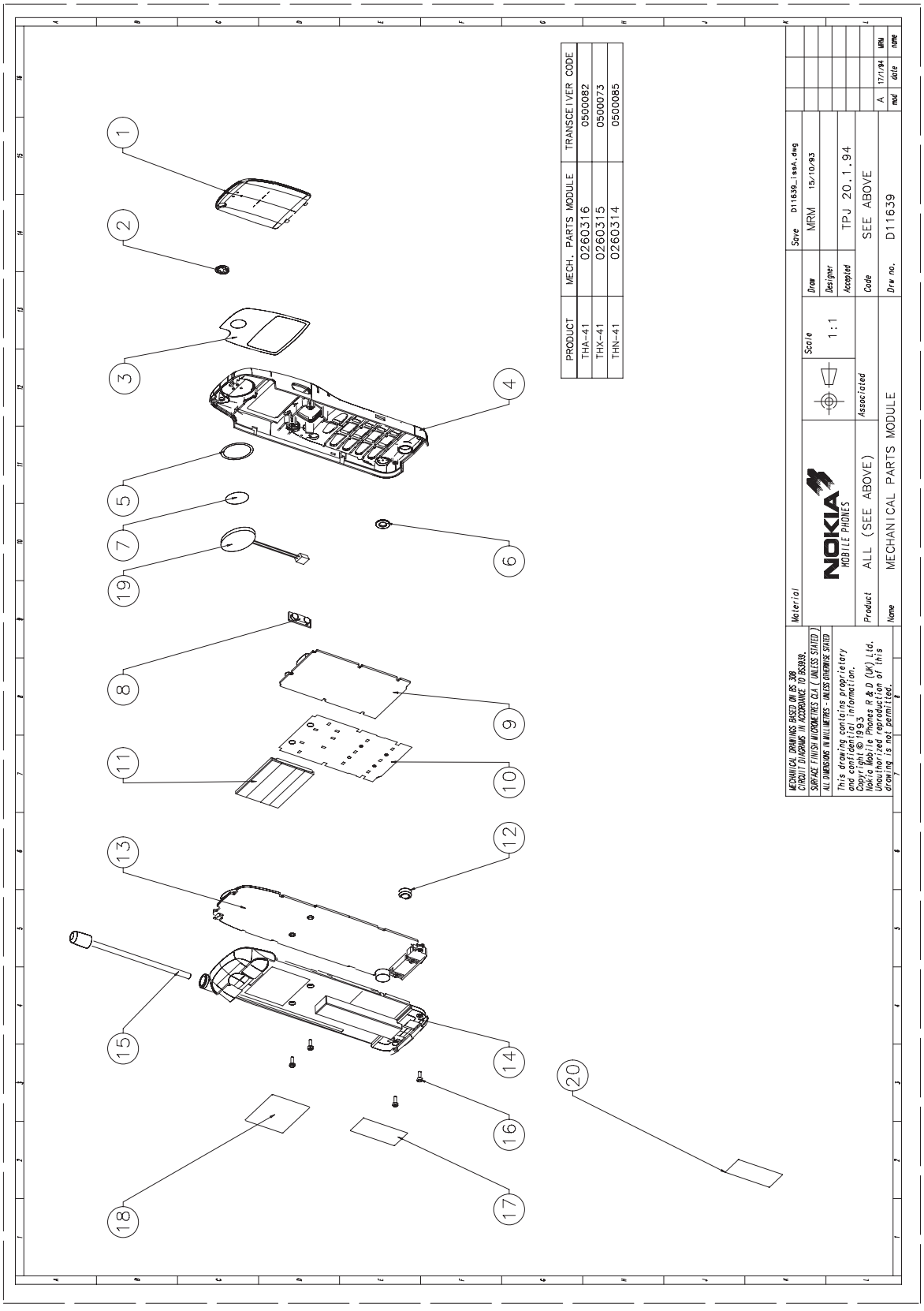
- received audio processing
- transmitted audio processing
- data reception and transmission
- channel selection
- RF signal reception and detection of the modulated information to baseband
- modulation of the baseband microphone and data signal to the selected channel and amplification of the signal to the selected power level

The system module comprises a microprocessor, which controls the main functions of the phone, and parts of the HW dependent user interface (earphone, microphone, and alarm–beeper).

Display Module

The display module comprises a supertwist–LCD, a display driver and keyboard contacts.

Figure 1: Exploded View of Transceiver THX–41


PRODUCT | MECH. PARTS MODULE | TRANSCEIVER CODE
THA-41 | 0260316 | 0500082
THX-41 | 0260315 | 0500073
THN-41 | 0260314 | 0500085
NOKIA MOBILE PHONES
MECHANICAL PARTS MODULE
D11639
TPJ 20.1.94
SEE ABOVE
ALL (SEE ABOVE)
1 : 1
MRM 15/10/93
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Assembly Parts

ITEM	Q'TY	CODE	DESCRIPTION	VALUE, TYPE
1		9450312	Window	A11283
2		9790072	Keymat, on/off	B11647
3	2	9480109	Window adhesive	B11555
4		9450314	Front Moulding	E11277
5		9450133	Earphone Spacer	4D21596
6		9480108	Bleeper Gasket	A10539
7		9480107	Earphone Dust Shield	A11119
8		9790071	Keymat, volume	C11121
9		9790076	Keymat (Black Laser)	B11407
10		9795007	Polydome Layer	D11118
11		0200406	LCD Module (ETACS/ NMT)	D11284
12		9460100	Mic Boot	B10538
13		0200321	PCB Module (ETACS)	D11140
14		9450313	Rear Moulding	E11278
15		0660045	Antenna (ETACS)	B11292
16	4	6290044	Screw	
17			Not fitted at present	
18		9380115	Label Approval	A11594
19		5140578	Earphone Module	B11547
20		9380115	Type Approval Label	Country Specific

System Module (KS3) Parts List (Version 6)

ITEM	CODE	DESCRIPTION	VALUE	TYPE
C1	2307816	CAP CHIP CER	47n	20% 25V
C2	2320618	CAP CHIP CER	4n7	5% 25V
C3	2320107	CAP CHIP CER	10n	5% 50V
C4	2604022	CAP CHIP TANT	0.1uF	20% 35V
C5	2320520	CAP CHIP CER	2p2 +/–0p25	50V
C6	2320618	CAP CHIP CER	4n7	5% 25V
C7	2307816	CAP CHIP CER	47n	20% 25V
C8	2610016	CAP CHIP TANT	0u47	10% 25V
C9	2320552	CAP CHIP CER	47p	5% 50V
C10	2320618	CAP CHIP CER	4n7	5% 25V
C11	2320618	CAP CHIP CER	4n7	5% 25V
C12	2320520	CAP CHIP CER	2p2 +/–0p25	50V
C13	2320552	CAP CHIP CER	47p	5% 50V
C14	2604329	CAP CHIP TANT	4u7	20% 10V
C15	2320552	CAP CHIP CER	47p	5% 50V
C16	2604199	CAP CHIP TANT	2u2	20% 6V3
C17	2320552	CAP CHIP CER	47p	5% 50V
C18	2320552	CAP CHIP CER	47p	5% 50V
C19	2604287	CAP CHIP TANT	3u3	20% 16V
C20	2320546	CAP CHIP CER	27p	5% 50V
C21	2320518	CAP CHIP CER	1p8 +/–0p25	50V
C22	2320552	CAP CHIP CER	47p	5% 50V
C23	2320584	CAP CHIP CER	1n0	5% 50V
C25	2320508	CAP CHIP CER	1p0 +/–0p25	50V
C27	2320604	CAP CHIP CER	18p	5% 50V
C28	2320552	CAP CHIP CER	47p	5% 50V
C29	2320552	CAP CHIP CER	47p	5% 50V
C31	2320546	CAP CHIP CER	27p	5% 50V
C32	2320560	CAP CHIP CER	100p	5% 50V
C34	2307816	CAP CHIP CER	47n	20% 25V
C35	2320552	CAP CHIP CER	47p	5% 50V
C36	2320538	CAP CHIP CER	12p	5% 50V
C37	2320552	CAP CHIP CER	47p	5% 50V
C38	2320546	CAP CHIP CER	27p	5% 50V
C39	2320546	CAP CHIP CER	27p	5% 50V
C40	2320107	CAP CHIP CER	10n	5% 50V
C41	2320538	CAP CHIP CER	12p	5% 50V
C42	2320552	CAP CHIP CER	47p	5% 50V
C44	2320546	CAP CHIP CER	27p	5% 50V
C45	2320532	CAP CHIP CER	6p8 +/–0p25	50V
C46	2320602	CAP CHIP CER	4p7 +/–0p25	50V
C47	2320526	CAP CHIP CER	3p9 +/–0p25	50V
C48	2320546	CAP CHIP CER	27p	5% 50V

C49	2320602	CAP CHIP CER	4p7 +/–0p25	50V
C50	2320552	CAP CHIP CER	47p	5% 50V
C51	2320552	CAP CHIP CER	47p	5% 50V
C52	2320552	CAP CHIP CER	47p	5% 50V
C53	2320552	CAP CHIP CER	47p	5% 50V
C54	2340010	CAP CHIP CER	27n	10% 50V
C55	2340014	CAP CHIP CER	47n	10% 25V X7R
C56	2604329	CAP CHIP TANT	4u7	20% 10V
C57	2320107	CAP CHIP CER	10n	5% 50V
C58	2307816	CAP CHIP CER	47n	20% 25V
C59	2320522	CAP CHIP CER	2p7 +/–0p25	50V
C60	2320552	CAP CHIP CER	47p	5% 50V
C61	2320552	CAP CHIP CER	47p	5% 50V
C62	2320604	CAP CHIP CER	18p	5% 50V
C63	2320618	CAP CHIP CER	4n7	5% 25V
C64	2307816	CAP CHIP CER	47n	20% 25V
C65	2320560	CAP CHIP CER	100p	5% 50V
C66	2320520	CAP CHIP CER	2p2 +/–0p25	50V
C67	2320552	CAP CHIP CER	47p	5% 50V
C68	2320552	CAP CHIP CER	47p	5% 50V
C69	2320552	CAP CHIP CER	47p	5% 50V
C70	2320552	CAP CHIP CER	47p	5% 50V
C71	2320552	CAP CHIP CER	47p	5% 50V
C72	2320584	CAP CHIP CER	1n0	5% 50V
C73	2320556	CAP CHIP CER	68p	5% 25V
C74	2320552	CAP CHIP CER	47p	5% 50V
C75	2320264	CAP CHIP CER	330p	2% 50V
C77	2320618	CAP CHIP CER	4n7	5% 25V
C78	2604209	CAP CHIP TANT	1u	20% 16V
C79	2604199	CAP CHIP TANT	2u2	20% 6V3
C80	2604209	CAP CHIP TANT	1u	20% 16V
C81	2320560	CAP CHIP CER	100p	5% 50V
C82	2320552	CAP CHIP CER	47p	5% 50V
C83	2320552	CAP CHIP CER	47p	5% 50V
C84	2320524	CAP CHIP CER	3p3 +/–0p25	50V
C85	2604199	CAP CHIP TANT	2u2	20% 6V3
C86	2320546	CAP CHIP CER	27p	5% 50V
C87	2320540	CAP CHIP CER	15p	5% 25V
C88	2604199	CAP CHIP TANT	2u2	20% 6V3
C89	2320532	CAP CHIP CER	6p8 +/–0p25	50V
C90	2320602	CAP CHIP CER	4p7 +/–0p25	50V
C91	2320518	CAP CHIP CER	1p8 +/–0p25	50V
C92	2320540	CAP CHIP CER	15p	5% 25V
C93	2320602	CAP CHIP CER	4p7 +/–0p25	50V
C94	2320602	CAP CHIP CER	4p7 +/–0p25	50V
C95	2320544	CAP CHIP CER	22p	5% 50V
C96	2320546	CAP CHIP CER	27p	5% 50V

C97	2320552	CAP CHIP CER	47p	5% 50V
C98	2320520	CAP CHIP CER	2p2 +/–0p25	50V
C99	2320538	CAP CHIP CER	12p	5% 50V
C100	2320602	CAP CHIP CER	4p7 +/–0p25	50V
C101	2320618	CAP CHIP CER	4n7	5% 25V
C102	2320560	CAP CHIP CER	100p	5% 50V
C103	2340014	CAP CHIP CER	47n	10% 25V X7R
C104	2320552	CAP CHIP CER	47p	5% 50V
C105	2320552	CAP CHIP CER	47p	5% 50V
C106	2320546	CAP CHIP CER	27p	5% 50V
C107	2320546	CAP CHIP CER	27p	5% 50V
C108	2320552	CAP CHIP CER	47p	5% 50V
C109	2604287	CAP CHIP TANT	3u3	20% 16V
C110	2604199	CAP CHIP TANT	2u2	20% 6V3
C111	2604199	CAP CHIP TANT	2u2	20% 6V3
C112	2320524	CAP CHIP CER	3p3 +/–0p25	50V
C113	2604209	CAP CHIP TANT	1u	20% 16V
C114	2320560	CAP CHIP CER	100p	5% 50V
C115	2604209	CAP CHIP TANT	1u	20% 16V
C116	2320546	CAP CHIP CER	27p	5% 50V
C117	2604199	CAP CHIP TANT	2u2	20% 6V3
C118	2320526	CAP CHIP CER	3p9 +/–0p25	50V
C119	2320618	CAP CHIP CER	4n7	5% 25V
C120	2320560	CAP CHIP CER	100p	5% 50V
C122	2320602	CAP CHIP CER	4p7 +/–0p25	50V
C124	2320620	CAP CHIP CER	10n	5% X7R 16V
C125	2320552	CAP CHIP CER	47p	5% 50V
C126	2320522	CAP CHIP CER	2p7 +/–0p25	50V
C127	2320107	CAP CHIP CER	10n	5% 50V
C129	2320530	CAP CHIP CER	5p6 +/–0p25	50V
C130	2320620	CAP CHIP CER	10n	5% X7R 16V
C131	2320552	CAP CHIP CER	47p	5% 50V
C132	2320552	CAP CHIP CER	47p	5% 50V
C133	2320552	CAP CHIP CER	47p	5% 50V
C134	2320552	CAP CHIP CER	47p	5% 50V
C135	2320552	CAP CHIP CER	47p	5% 50V
C136	2320530	CAP CHIP CER	5p6 +/–0p25	50V
C137	2320107	CAP CHIP CER	10n	5% 50V
C138	2320107	CAP CHIP CER	10n	5% 50V
C143	2320546	CAP CHIP CER	27p	5% 50V
C144	2320546	CAP CHIP CER	27p	5% 50V
C145	2320546	CAP CHIP CER	27p	5% 50V
C146	2320552	CAP CHIP CER	47p	5% 50V
C160	2320552	CAP CHIP CER	47p	5% 50V
C401	2307816	CAP CHIP CER	47n	20% 25V
C402	2320107	CAP CHIP CER	10n	5% 50V
C403	2320548	CAP CHIP CER	33p	5% 50V

C404	2320548	CAP CHIP CER	33p	5% 50V
C405	2320546	CAP CHIP CER	27p	5% 50V
C406	2307816	CAP CHIP CER	47n	20% 25V
C408	2320546	CAP CHIP CER	27p	5% 50V
C409	2307816	CAP CHIP CER	47n	20% 25V
C410	2307816	CAP CHIP CER	47n	20% 25V
C412	2307816	CAP CHIP CER	47n	20% 25V
C413	2307816	CAP CHIP CER	47n	20% 25V
C414	2307816	CAP CHIP CER	47n	20% 25V
C415	2307816	CAP CHIP CER	47n	20% 25V
C416	2320107	CAP CHIP CER	10n	5% 50V
C417	2307816	CAP CHIP CER	47n	20% 25V
C418	2307816	CAP CHIP CER	47n	20% 25V
C419	2307816	CAP CHIP CER	47n	20% 25V
C420	2307816	CAP CHIP CER	47n	20% 25V
C421	2307816	CAP CHIP CER	47n	20% 25V
C422	2307816	CAP CHIP CER	47n	20% 25V
C423	2320582	CAP CHIP CER	820p	5% 50V
C424	2307816	CAP CHIP CER	47n	20% 25V
C425	2307816	CAP CHIP CER	47n	20% 25V
C426	2307816	CAP CHIP CER	47n	20% 25V
C427	2307816	CAP CHIP CER	47n	20% 25V
C428	2307816	CAP CHIP CER	47n	20% 25V
C429	2320107	CAP CHIP CER	10n	5% 50V
C430	2320546	CAP CHIP CER	27p	5% 50V
C431	2307816	CAP CHIP CER	47n	20% 25V
C432	2307816	CAP CHIP CER	47n	20% 25V
C433	2307816	CAP CHIP CER	47n	20% 25V
C434	2307816	CAP CHIP CER	47n	20% 25V
C436	2320620	CAP CHIP CER	10n	5% X7R 16V
C437	2604209	CAP CHIP TANT	1u	20% 16V
C438	2604209	CAP CHIP TANT	1u	20% 16V
C439	2604209	CAP CHIP TANT	1u	20% 16V
C440	2604209	CAP CHIP TANT	1u	20% 16V
C441	2320584	CAP CHIP CER	1n	0 5% 50V
C442	2320560	CAP CHIP CER	100p	5% 50V
C443	2307816	CAP CHIP CER	47n	20% 25V
C444	2307816	CAP CHIP CER	47n	20% 25V
C446	2604287	CAP CHIP TANT	3u3	20% 16V
C447	2604127	CAP CHIP TANT	1u	20% 35V
C448	2604022	CAP CHIP TANT	0.1uF	20% 35V
C451	2320584	CAP CHIP CER	1n	0 5% 50V
C452	2320546	CAP CHIP CER	27p	5% 50V
C454	2604079	CAP CHIP TANT	0u22	20% 35V
C455	2307816	CAP CHIP CER	47n	20% 25V
C456	2320107	CAP CHIP CER	10n	5% 50V
C457	2320552	CAP CHIP CER	47p	5% 50V

C458	2320552	CAP CHIP CER	47p	5% 50V
C459	2307816	CAP CHIP CER	47n	20% 25V
C460	2320546	CAP CHIP CER	27p	5% 50V
C461	2604209	CAP CHIP TANT	1u	20% 16V
C462	2320546	CAP CHIP CER	27p	5% 50V
C463	2320546	CAP CHIP CER	27p	5% 50V
C464	2320546	CAP CHIP CER	27p	5% 50V
C465	2320546	CAP CHIP CER	27p	5% 50V
C472	2320546	CAP CHIP CER	27p	5% 50V
C473	2320546	CAP CHIP CER	27p	5% 50V
C500	2320552	CAP CHIP CER	47p	5% 50V
C501	2320552	CAP CHIP CER	47p	5% 50V
C502	2604199	CAP CHIP TANT	2u2	20% 6V3
C503	2604199	CAP CHIP TANT	2u2	20% 6V3
C504	2320546	CAP CHIP CER	27p	5% 50V
C505	2320546	CAP CHIP CER	27p	5% 50V
C506	2320546	CAP CHIP CER	27p	5% 50V
C700	2307816	CAP CHIP CER	47n	20% 25V
C701	2307816	CAP CHIP CER	47n	20% 25V
C702	2307816	CAP CHIP CER	47n	20% 25V
C703	2320556	CAP CHIP CER	68p	5% 25V
C719	2307816	CAP CHIP CER	47n	20% 25V
D404	0240140	SW THX–41/42 LOCKED MCU OTP		
D406	4343258	IC EEPROM	2kx8bit	SO8S
D411	0240189	SW THX–41X PROGRAMMED MCU (see note)		
D700	4309569	IC INVERTER	HEF4069UBTSO14	
F1	5119002	FUSE	2 AMP	1206
G1	4510048	VCTCXO	14.85MHz	SMD
G400	4510052	XTAL NKS–5843 SMD	4.800MHz	
J1	5469788	SYSTEM CONNECTOR	22PIN	SMD
J2	5431708	SKT 18 WAY	R/A	SMD
J3	5449506	PLUG 2 WAY	SMD R/ANG	
L1	3641322	IND CHIP	8n2H	10% COILCRFT
L2	3660102	IND CHIP	320uH	2% 4HLH
L3	3641202	IND CHIP	10nH	10% TDK
L4	3641220	IND CHIP	39nH	20% TDK
L5	3641220	IND CHIP	39nH	20% TDK
L6	3641322	IND CHIP	8n2H	10% COILCRFT
L7	3641256	IND CHIP	470nH	5% 1008
L8	3641544	CHIP COIL	68nH	10% 0805
L9	3640406	SMD COIL ADJ	45MHz	Q33 5X5
L10	3641544	CHIP COIL	68nH	10% 0805
L12	3641202	IND CHIP	10nH	10% TDK
L13	3641544	CHIP COIL	68nH	10% 0805
L14	3641544	CHIP COIL	68nH	10% 0805
L15	3641544	CHIP COIL	68nH	10% 0805
L16	3641544	CHIP COIL	68nH	10% 0805

L17	3641322	IND CHIP	8n2H	10% COILCRFT
L18	3641544	CHIP COIL	68nH	10% 0805
L19	3641328	COILCRAFT	39nH	1008CS–390–X KBC
L30	3641532	CHIP COIL	22nH	20% 0805
L100	3606946	FERRITE BEAD		1206
N1	4349694	IC FM IF TA31136–FN		
N2	4347350	TBB206G		PLL S014
N4	4349708	IC PRESCALER		PMB2312 SO8
N7	4340138	IC PRESCALER		MC12052A SO8
N8	4349702	IC MIXER		PMB2330 SO8
N10	4340148	IC OP AMP	TA75S01F	SSOP5
N12	4347350	TBB206G		PLL S014
N403	4375026	NMP75026	MODEM NAT SO28	
N407	4375022	IC ASIC NMP75022		PSL2 SOIC20
N408	4370018	IC N_ANTIC		QFP44
Q1	5200120	SWITCH TACTILE	SKQGAD	SMD
R1	1430830	RES CHIP	1M0	5% 0.06W
R2	1430710	RES CHIP	22R	5% 0.06W
R3	1430770	RES CHIP	4K7	5% 0.06W
R4	1430778	RES CHIP	10K	5% 0.06W
R5	1430774	RES CHIP	6K8	5% 0.06W
R6	1430726	RES CHIP	100R	5% 0.06W
R7	1430742	RES CHIP	390R	5% 0.06W
R8	1430832	RES CHIP	2K7	5% 0.06W
R9	1430778	RES CHIP	10K	5% 0.06W
R10	1430744	RES CHIP	470R	5% 0.06W
R11	1430718	RES CHIP	47R	5% 0.06W
R12	1430784	RES CHIP	15K	5% 0.06W
R13	1430734	RES CHIP	220R	5% 0.06W
R14	1430804	RES CHIP	100K	5% 0.06W
R15	1430734	RES CHIP	220R	5% 0.06W
R16	1430726	RES CHIP	100R	5% 0.06W
R17	1430770	RES CHIP	4K7	5% 0.06W
R18	1430730	RES CHIP	150R	5% 0.06W
R19	1430726	RES CHIP	100R	5% 0.06W
R21	1430762	RES CHIP	2K2	5% 0.06W
R22	1430774	RES CHIP	6K8	5% 0.06W
R23	1430778	RES CHIP	10K	5% 0.06W
R24	1430788	RES CHIP	22K	5% 0.06W
R25	1430718	RES CHIP	47R	5% 0.06W
R26	1430718	RES CHIP	47R	5% 0.06W
R27	1430762	RES CHIP	2K2	5% 0.06W
R28	1430764	RES CHIP	3K3	5% 0.06W
R29	1430832	RES CHIP	2K7	5% 0.06W
R30	1430738	RES CHIP	270R	5% 0.06W
R31	1430784	RES CHIP	15K	5% 0.06W

R32	1430744	RES CHIP	470R	5% 0.06W
R33	1430830	RES CHIP	1M0	5% 0.06W
R34	1430730	RES CHIP	150R	5% 0.06W
R35	1430726	RES CHIP	100R	5% 0.06W
R36	1430832	RES CHIP	2K7	5% 0.06W
R37	1430762	RES CHIP	2K2	5% 0.06W
R38	1430830	RES CHIP	1M0	5% 0.06W
R39	1430820	RES CHIP	470K	5% 0.06W
R40	1430734	RES CHIP	220R	5% 0.06W
R41	1430710	RES CHIP	22R	5% 0.06W
R42	1430798	RES CHIP	56K	5% 0.06W
R43	1430804	RES CHIP	100K	5% 0.06W
R44	1430778	RES CHIP	10K	5% 0.06W
R45	1430804	RES CHIP	100K	5% 0.06W
R46	1430792	RES CHIP	33K	5% 0.06W
R47	1430778	RES CHIP	10K	5% 0.06W
R48	1430770	RES CHIP	4K7	5% 0.06W
R49	1430774	RES CHIP	6K8	5% 0.06W
R50	1430762	RES CHIP	2K2	5% 0.06W
R52	1430770	RES CHIP	4K7	5% 0.06W
R53	1430770	RES CHIP	4K7	5% 0.06W
R54	1430710	RES CHIP	22R	5% 0.06W
R55	1430762	RES CHIP	2K2	5% 0.06W
R58	1430778	RES CHIP	10K	5% 0.06W
R59	1430762	RES CHIP	2K2	5% 0.06W
R61	1430778	RES CHIP	10K	5% 0.06W
R62	1430746	RES CHIP	560R	5% 0.06W
R63	1430710	RES CHIP	22R	5% 0.06W
R64	1430796	RES CHIP	47K	5% 0.06W
R65	1430788	RES CHIP	22K	5% 0.06W
R66	1430706	RES CHIP	15R	5% 0.06W
R68	1430718	RES CHIP	47R	5% 0.06W
R69	1430778	RES CHIP	10K	5% 0.06W
R71	1430700	RES CHIP	10R	5% 0.06W
R72	1430710	RES CHIP	22R	5% 0.06W
R73	1430820	RES CHIP	470K	5% 0.06W
R74	1430830	RES CHIP	1M0	5% 0.06W
R75	1430700	RES CHIP	10R	5% 0.06W
R76	1430792	RES CHIP	33K	5% 0.06W
R77	1430738	RES CHIP	270R	5% 0.06W
R78	1430812	RES CHIP	220K	5% 0.06W
R79	1430774	RES CHIP	6K8	5% 0.06W
R81	1430762	RES CHIP	2K2	5% 0.06W
R82	1430754	RES CHIP	1K0	5% 0.06W
R84	1430730	RES CHIP	150R	5% 0.06W
R86	1430726	RES CHIP	100R	5% 0.06W
R87	1430700	RES CHIP	10R	5% 0.06W

R88	1430762	RES CHIP	2K2	5% 0.06W
R89	1430770	RES CHIP	4K7	5% 0.06W
R92	1430762	RES CHIP	2K2	5% 0.06W
R93	1430762	RES CHIP	2K2	5% 0.06W
R94	1430722	RES CHIP	68R	5% 0.06W
R95	1430706	RES CHIP	15R	5% 0.06W
R96	1430798	RES CHIP	56K	5% 0.06W
R97	1430812	RES CHIP	220K	5% 0.06W
R98	1430804	RES CHIP	100K	5% 0.06W
R99	1430700	RES CHIP	10R	5% 0.06W
R101	1430710	RES CHIP	22R	5% 0.06W
R102	1430754	RES CHIP	1K0	5% 0.06W
R105	1430762	RES CHIP	2K2	5% 0.06W
R106	1430778	RES CHIP	10K	5% 0.06W
R107	1430792	RES CHIP	33K	5% 0.06W
R108	1430726	RES CHIP	100R	5% 0.06W
R112	1430792	RES CHIP	33K	5% 0.06W
R113	1430734	RES CHIP	220R	5% 0.06W
R114	1430718	RES CHIP	47R	5% 0.06W
R115	1430718	RES CHIP	47R	5% 0.06W
R116	1430770	RES CHIP	4K7	5% 0.06W
R117	1430772	RES CHIP	5K6	5% 0.06W
R118	1430730	RES CHIP	150R	5% 0.06W
R119	1430744	RES CHIP	470R	5% 0.06W
R120	1430710	RES CHIP	22R	5% 0.06W
R128	1430792	RES CHIP	33K	5% 0.06W
R129	1430792	RES CHIP	33K	5% 0.06W
R130	1430806	RES CHIP	120K	5% 0.06W
R136	1430770	RES CHIP	4K7	5% 0.06W
R137	1430754	RES CHIP	1K0	5% 0.06W
R139	1430718	RES CHIP	47R	5% 0.06W
R140	1430726	RES CHIP	100R	5% 0.06W
R400	1430706	RES CHIP	15R	5% 0.06W
R403	1430796	RES CHIP	47K	5% 0.06W
R404	1430828	RES CHIP	820K	5% 0.06W
R405	1430796	RES CHIP	47K	5% 0.06W
R406	1430804	RES CHIP	100K	5% 0.06W
R407	1430804	RES CHIP	100K	5% 0.06W
R408	1430804	RES CHIP	100K	5% 0.06W
R411	1430762	RES CHIP	2K2	5% 0.06W
R413	1430804	RES CHIP	100K	5% 0.06W
R414	1411388	RES CHIP	33R	5% 0.125W
R415	1411388	RES CHIP	33R	5% 0.125W
R416	1430778	RES CHIP	10K	5% 0.06W
R417	1430778	RES CHIP	10K	5% 0.06W
R419	1430730	RES CHIP	150R	5% 0.06W
R420	1430804	RES CHIP	100K	5% 0.06W

R421	1430804	RES CHIP	100K	5% 0.06W
R422	1430790	RES CHIP	27K	5% 0.06W
R423	1430792	RES CHIP	33K	5% 0.06W
R424	1430792	RES CHIP	33K	5% 0.06W
R425	1430818	RES CHIP	390K	5% 0.06W
R426	1430816	RES CHIP	330K	5% 0.06W
R427	1430796	RES CHIP	47K	5% 0.06W
R428	1430804	RES CHIP	100K	5% 0.06W
R429	1430804	RES CHIP	100K	5% 0.06W
R430	1430804	RES CHIP	100K	5% 0.06W
R431	1430762	RES CHIP	2K2	5% 0.06W
R432	1430788	RES CHIP	22K	5% 0.06W
R433	1430792	RES CHIP	33K	5% 0.06W
R434	1430754	RES CHIP	1K0	5% 0.06W
R435	1430804	RES CHIP	100K	5% 0.06W
R436	1430806	RES CHIP	120K	5% 0.06W
R437	1430778	RES CHIP	10K	5% 0.06W
R438	1430754	RES CHIP	1K0	5% 0.06W
R439	1430754	RES CHIP	1K0	5% 0.06W
R440	1430744	RES CHIP	470R	5% 0.06W
R441	1430754	RES CHIP	1K0	5% 0.06W
R442	1430828	RES CHIP	820K	5% 0.06W
R443	1430798	RES CHIP	56K	5% 0.06W
R444	1430792	RES CHIP	33K	5% 0.06W
R445	1430792	RES CHIP	33K	5% 0.06W
R447	1430804	RES CHIP	100K	5% 0.06W
R448	1430754	RES CHIP	1K0	5% 0.06W
R449	1430804	RES CHIP	100K	5% 0.06W
R450	1430804	RES CHIP	100K	5% 0.06W
R451	1430792	RES CHIP	33K	5% 0.06W
R452	1430754	RES CHIP	1K0	5% 0.06W
R453	1430778	RES CHIP	10K	5% 0.06W
R454	1430778	RES CHIP	10K	5% 0.06W
R455	1430804	RES CHIP	100K	5% 0.06W
R456	1430254	RES CHIP	6K8	2% 0.063W
R457	1413850	RES CHIP	4R7	5% 0.063W
R458	1430294	RES CHIP	220K	2% 0.063W
R459	1430280	RES CHIP	100K	2% 0.063W
R460	1430816	RES CHIP	330K	5% 0.06W
R461	1430812	RES CHIP	220K	5% 0.06W
R462	1430804	RES CHIP	100K	5% 0.06W
R463	1430804	RES CHIP	100K	5% 0.06W
R464	1430248	RES CHIP	3K9	2% 0.063W
R465	1430248	RES CHIP	3K9	2% 0.063W
R466	1430776	RES CHIP	8K2	5% 0.06W
R467	1430746	RES CHIP	560R	5% 0.06W
R468	1430746	RES CHIP	560R	5% 0.06W

R470	1430762	RES CHIP	2K2	5% 0.06W
R471	1430764	RES CHIP	3K3	5% 0.06W
R472	1414029	RES CHIP	3K3	5% 0W06
R473	1430790	RES CHIP	27K	5% 0.06W
R474	1430742	RES CHIP	390R	5% 0.06W
R475	1430788	RES CHIP	22K	5% 0.06W
R476	1430762	RES CHIP	2K2	5% 0.06W
R478	1430796	RES CHIP	47K	5% 0.06W
R479	1430802	RES CHIP	82K	5% 0.06W
R481	1430778	RES CHIP	10K	5% 0.06W
R482	1430804	RES CHIP	100K	5% 0.06W
R484	1430812	RES CHIP	220K	5% 0.06W
R485	1430826	RES CHIP	680K	5% 0.06W
R486	1430780	RES CHIP	12K	5% 0.06W
R487	1430788	RES CHIP	22K	5% 0.06W
R489	1430780	RES CHIP	12K	5% 0.06W
R490	1430822	RES CHIP	560K	5% 0.06W
R491	1430806	RES CHIP	120K	5% 0.06W
R492	1430796	RES CHIP	47K	5% 0.06W
R493	1430812	RES CHIP	220K	5% 0.06W
R494	1430796	RES CHIP	47K	5% 0.06W
R495	1430810	RES CHIP	180K	5% 0.06W
R496	1430788	RES CHIP	22K	5% 0.06W
R497	1430796	RES CHIP	47K	5% 0.06W
R498	1430804	RES CHIP	100K	5% 0.06W
R499	1430814	RES CHIP	270K	5% 0.06W
R500	1430778	RES CHIP	10K	5% 0.06W
R501	1411388	RES CHIP	33R	5% 0.125W
R504	1430754	RES CHIP	1K0	5% 0.06W
R506	1430792	RES CHIP	33K	5% 0.06W
R508	1430754	RES CHIP	1K0	5% 0.06W
R509	1411388	RES CHIP	33R	5% 0.125W
R510	1430778	RES CHIP	10K	5% 0.06W
R512	1430778	RES CHIP	10K	5% 0.06W
R513	1430780	RES CHIP	12K	5% 0.06W
R514	1430790	RES CHIP	27K	5% 0.06W
R515	1430804	RES CHIP	100K	5% 0.06W
R516	1430744	RES CHIP	470R	5% 0.06W
R517	1430812	RES CHIP	220K	5% 0.06W
R702	1430726	RES CHIP	100R	5% 0.06W
R705	1430712	RES CHIP	27R	5% 0.06W
R706	1430762	RES CHIP	2K2	5% 0.06W
R707	1800673	THERM CHIP	15K	10% 0.12W
R708	1430776	RES CHIP	8K	2 5% 0.06W
R709	1430778	RES CHIP	10K	5% 0.06W
R710	1430804	RES CHIP	100K	5% 0.06W
R713	1411363	RES CHIP	22R	5% 0.125W

R716	1430762	RES CHIP	2K2	5% 0.06W
V1	4210058	TRANS	MRF947	SOT323
V2	4200917	TRANS	BC848B.BCW32 BCW60C MBCW32A	
V3	4210058	TRANS	MRF947	SOT323
V4	4210058	TRANS	MRF947	SOT323
V5	4210058	TRANS	MRF947	SOT323
V6	4219904	TRANS DUAL NPN	UMX1 UM6	
V7	4210342	FET	CLY10	SOT223
V8	4210058	TRANS	MRF947	SOT323
V9	4210079	TRANS NPN	BFS17	SOT23
V10	4219904	TRANS DUAL NPN	UMX1 UM6	
V11	4340172	TRANS	GAAS FET	OKI KGF1254
V12	4210054	TRANS	FMMT589 PNP SOT23	
V13	4219922	TRANS DUAL PNP/NPN	UMZ1/HN1BO1	
V14	4219922	TRANS DUAL PNP/NPN	UMZ1/HN1BO1	
V15	4219904	TRANS DUAL NPN	UMX1 UM6	
V16	4210132	TRANS	NE68130	SOT 323
V18	4210132	TRANS	NE68130	SOT 323
V20	4210054	TRANS PNP	FMMT589	SOT23
V21	4219904	TRANS DUAL NPN	UMX1 UM6	
V202	4111092	DIODE VAR	BB639	SOD323
V203	4110018	DIODE VAR	BB135 ISV	(SOD323)
V204	4110018	DIODE VAR	BB135 ISV	(SOD323)
V205	4100567	SCHDIX2 BAS70–04 70V	15MA	SOT2
V400	4219904	TRANS DUAL NPN	UMX1 UM6	
V401	4202671	TRANS FET	BST82	SOT23
V403	4210020	TR BCP69–25 P22VICM2A1.5W		SOT2
V405	4219904	TRANS DUAL NPN	UMX1 UM6	
V406	4219914	TRANS DUAL PNP	4K7R UMB3 UM6	
V411	4219922	TRANS DUAL PNP/NPN	UMZ1/HN1BO1	
V412	4207461	TRANS BC868–25 NPN		SOT89
V413	4219908	TRANS DUAL PNP	UMT1 UM6	
V414	4219904	TRANS DUAL NPN	UMX1 UM6	
V415	4219908	TRANS DUAL PNP	UMT1 UM6	
V420	4200226	TRANS DARLINGTON	BCV27	SOT23
V421	4200226	TRANS DARLINGTON	BCV27	SOT23
V500	4113828	DIODE TVS TRANSZORB		SMSJ28A
V501	4108639	DIODE DUAL	BAS28	SOT143HP
V506	4110396	DIODE ZENER	BZX84 3V0	SOT23
V507	4119902	DIODE D/DOUBLE C/A	IMP11 IMD	
V508	4115804	DIODE SCHOTTKY	PRLL5817	SOD87
V510	4100285	DIODE DUAL	BAV99	SOT23
V511	4100285	DIODE DUAL	BAV99	SOT23
V512	4100285	DIODE DUAL	BAV99	SOT23
V514	4100285	DIODE DUAL	BAV99	SOT23
V515	4100285	DIODE DUAL	BAV99	SOT23

V517	4100285	DIODE DUAL	BAV99	SOT23
V700	4207461	TRANS BC868–25 NPN		SOT89
V701	4200917	TR BC848B.BCW32 BCW60C MBCW32A		
V900	4864388	CHIP LED YELLOW/GREEN		0603
V901	4864388	CHIP LED YELLOW/GREEN		0603
V902	4864388	CHIP LED YELLOW/GREEN		0603
V903	4864388	CHIP LED YELLOW/GREEN		0603
V904	4864388	CHIP LED YELLOW/GREEN		0603
V905	4864388	CHIP LED YELLOW/GREEN		0603
V906	4864388	CHIP LED YELLOW/GREEN		0603
V907	4864388	CHIP LED YELLOW/GREEN		0603
V908	4864388	CHIP LED YELLOW/GREEN		0603
V909	4864388	CHIP LED YELLOW/GREEN		0603
V910	4864388	CHIP LED YELLOW/GREEN		0603
V911	4864388	CHIP LED YELLOW/GREEN		0603
V912	4864388	CHIP LED YELLOW/GREEN		0603
V914	4864388	CHIP LED YELLOW/GREEN		0603
V916	4100285	DIODE DUAL	BAV99	SOT23
V918	4100285	DIODE DUAL	BAV99	SOT23
Z2	4505696	FILTER XTAL	45MHz	UM4
Z3	4556930	FILTER CER	450kHz 6 ele. ETACS	
Z4	4512022	DUPLEX FILTER	HY–3BA/ET1 LKP	
Z5	4511034	FILTER SAW	917–950MHz TACS RX	
Z6	4505696	FILTER XTAL	45MHz	UM4

NOTE: PROM D411 contains the block of Electronic Serial Numbers (ESN). Each country is allocated a different block of numbers which are programmed into a blank PROM (4340176). The programmed module is issued with a new 7–figure code – refer to table below.

Transceiver		**Programmed Module**
THX–41X	UK	0240189
THX–41V	Italy	0240190
THX–41L	Spain	0240191
THX–41A	Austria	0240192
THX–41C	China	0240193
THX–41S	Singapore*	0240194
THX–41G	Gulf Region**	0240195

* Still to be confirmed

** May be incorporated within UK allocation

Display Module (KL2) Parts List

Module PCB Parts List

ITEM	CODE	DESCRIPTION	VALUE	TYPE
R1	1430778	CHIP RES	10K	5% 0.06W
R2	1430790	CHIP RES	27K	5% 0.06W
R3	1430790	CHIP RES	27K	5% 0.06W
R4	1430790	CHIP RES	27K	5% 0.06W
R5	1430790	CHIP RES	27K	5% 0.06W
R6	1430790	CHIP RES	27K	5% 0.06W
C1	2320618	CHIP CERAMIC CAP	4n7	5% 25V
C2	2320552	CHIP CERAMIC CAP	47p	5% 50V
C3	2320552	CHIP CERAMIC CAP	47p	5% 50V
C4	2320618	CHIP CERAMIC CAP	4n7	5% 25V
D1	4309047	IC LCD DRIVER	uPD7228A	GFP80
V1	4864388	CHIP LED	YELLOW/ GREEN	0603
V2	4864388	CHIP LED	YELLOW/ GREEN	0603
V3	4864388	CHIP LED	YELLOW/ GREEN	0603
V4	4864388	CHIP LED	YELLOW/ GREEN	0603

System Module (KS3) Parts List (Version 11)

ITEM	CODE	DESCRIPTION	VALUE	TYPE
R001	1430830	Chip resistor	1.0 M	5 % 0.063 W 0402
R002	1430710	Chip resistor	22	5 % 0.063 W 0402
R003	1430770	Chip resistor	4.7 k	5 % 0.063 W 0402
R004	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R005	1430774	Chip resistor	6.8 k	5 % 0.063 W 0402
R006	1430726	Chip resistor	100	5 % 0.063 W 0402
R007	1430742	Chip resistor	390	5 % 0.063 W 0402
R008	1430832	Chip resistor	2.7 k	5 % 0.063 W 0402
R009	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R010	1430744	Chip resistor	470	5 % 0.063 W 0402
R011	1430718	Chip resistor	47	5 % 0.063 W 0402
R012	1430784	Chip resistor	15 k	5 % 0.063 W 0402
R013	1430726	Chip resistor	100	5 % 0.063 W 0402
R014	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R015	1430726	Chip resistor	100	5 % 0.063 W 0402
R016	1430726	Chip resistor	100	5 % 0.063 W 0402
R017	1430770	Chip resistor	4.7 k	5 % 0.063 W 0402
R018	1430734	Chip resistor	220	5 % 0.063 W 0402
R019	1430726	Chip resistor	100	5 % 0.063 W 0402
R021	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R022	1430774	Chip resistor	6.8 k	5 % 0.063 W 0402
R023	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R024	1430788	Chip resistor	22 k	5 % 0.063 W 0402
R025	1430718	Chip resistor	47	5 % 0.063 W 0402
R026	1430718	Chip resistor	47	5 % 0.063 W 0402
R027	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R028	1430764	Chip resistor	3.3 k	5 % 0.063 W 0402
R029	1430832	Chip resistor	2.7 k	5 % 0.063 W 0402
R030	1430738	Chip resistor	270	5 % 0.063 W 0402
R031	1430784	Chip resistor	15 k	5 % 0.063 W 0402
R032	1430744	Chip resistor	470	5 % 0.063 W 0402
R033	1430830	Chip resistor	1.0 M	5 % 0.063 W 0402
R034	1430730	Chip resistor	150	5 % 0.063 W 0402
R035	1430726	Chip resistor	100	5 % 0.063 W 0402
R036	1430832	Chip resistor	2.7 k	5 % 0.063 W 0402
R037	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R038	1430830	Chip resistor	1.0 M	5 % 0.063 W 0402

R039	1430820	Chip resistor	470 k	5 % 0.063 W 0402
R040	1430734	Chip resistor	220	5 % 0.063 W 0402
R041	1430710	Chip resistor	22	5 % 0.063 W 0402
R042	1430798	Chip resistor	56 k	5 % 0.063 W 0402
R043	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R044	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R045	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R046	1430788	Chip resistor	22 k	5 % 0.063 W 0402
R047	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R048	1430770	Chip resistor	4.7 k	5 % 0.063 W 0402
R049	1430774	Chip resistor	6.8 k	5 % 0.063 W 0402
R050	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R052	1430770	Chip resistor	4.7 k	5 % 0.063 W 0402
R053	1430770	Chip resistor	4.7 k	5 % 0.063 W 0402
R054	1430710	Chip resistor	22	5 % 0.063 W 0402
R055	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R058	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R059	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R060	1430700	Chip resistor	10	5 % 0.063 W 0402
R061	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R062	1430746	Chip resistor	560	5 % 0.063 W 0402
R063	1430710	Chip resistor	22	5 % 0.063 W 0402
R064	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R065	1430788	Chip resistor	22 k	5 % 0.063 W 0402
R066	1430706	Chip resistor	15	5 % 0.063 W 0402
R067	1430700	Chip resistor	10	5 % 0.063 W 0402
R068	1430718	Chip resistor	47	5 % 0.063 W 0402
R069	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R070	1430734	Chip resistor	220	5 % 0.063 W 0402
R071	1430700	Chip resistor	10	5 % 0.063 W 0402
R072	1430710	Chip resistor	22	5 % 0.063 W 0402
R073	1430820	Chip resistor	470 k	5 % 0.063 W 0402
R074	1430830	Chip resistor	1.0 M	5 % 0.063 W 0402
R075	1430700	Chip resistor	10	5 % 0.063 W 0402
R076	1430792	Chip resistor	33 k	5 % 0.063 W 0402
R077	1430738	Chip resistor	270	5 % 0.063 W 0402
R078	1430812	Chip resistor	220 k	5 % 0.063 W 0402
R079	1430774	Chip resistor	6.8 k	5 % 0.063 W 0402
R080	1430754	Chip resistor	1.0 k	5 % 0.063 W 0402
R081	1430770	Chip resistor	4.7 k	5 % 0.063 W 0402
R082	1430754	Chip resistor	1.0 k	5 % 0.063 W 0402
R084	1430730	Chip resistor	150	5 % 0.063 W 0402

R086	1430730	Chip resistor	150	5 % 0.063 W 0402
R087	1430722	Chip resistor	68	5 % 0.063 W 0402
R088	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R089	1430770	Chip resistor	4.7 k	5 % 0.063 W 0402
R092	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R093	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R094	1430718	Chip resistor	47	5 % 0.063 W 0402
R095	1430706	Chip resistor	15	5 % 0.063 W 0402
R096	1430798	Chip resistor	56 k	5 % 0.063 W 0402
R097	1430812	Chip resistor	220 k	5 % 0.063 W 0402
R098	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R099	1430700	Chip resistor	10	5 % 0.063 W 0402
R101	1430710	Chip resistor	22	5 % 0.063 W 0402
R102	1430754	Chip resistor	1.0 k	5 % 0.063 W 0402
R105	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R106	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R107	1430792	Chip resistor	33 k	5 % 0.063 W 0402
R108	1430726	Chip resistor	100	5 % 0.063 W 0402
R112	1430792	Chip resistor	33 k	5 % 0.063 W 0402
R113	1430734	Chip resistor	220	5 % 0.063 W 0402
R114	1430718	Chip resistor	47	5 % 0.063 W 0402
R115	1430718	Chip resistor	47	5 % 0.063 W 0402
R116	1430770	Chip resistor	4.7 k	5 % 0.063 W 0402
R117	1430772	Chip resistor	5.6 k	5 % 0.063 W 0402
R118	1430730	Chip resistor	150	5 % 0.063 W 0402
R119	1430744	Chip resistor	470	5 % 0.063 W 0402
R120	1430710	Chip resistor	22	5 % 0.063 W 0402
R128	1430792	Chip resistor	33 k	5 % 0.063 W 0402
R129	1430792	Chip resistor	33 k	5 % 0.063 W 0402
R130	1430806	Chip resistor	120 k	5 % 0.063 W 0402
R136	1430770	Chip resistor	4.7 k	5 % 0.063 W 0402
R137	1430754	Chip resistor	1.0 k	5 % 0.063 W 0402
R139	1430718	Chip resistor	47	5 % 0.063 W 0402
R140	1430726	Chip resistor	100	5 % 0.063 W 0402
R400	1430706	Chip resistor	15	5 % 0.063 W 0402
R403	1430796	Chip resistor	47 k	5 % 0.063 W 0402
R404	1430828	Chip resistor	820 k	5 % 0.063 W 0402
R405	1430796	Chip resistor	47 k	5 % 0.063 W 0402
R406	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R407	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R408	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R411	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402

R413	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R414				
R415				
R416	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R417	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R419	1430730	Chip resistor	150	5 % 0.063 W 0402
R420	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R421	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R422	1430790	Chip resistor	27 k	5 % 0.063 W 0402
R423	1430792	Chip resistor	33 k	5 % 0.063 W 0402
R424	1430792	Chip resistor	33 k	5 % 0.063 W 0402
R425	1430818	Chip resistor	390 k	5 % 0.063 W 0402
R426	1430816	Chip resistor	330 k	5 % 0.063 W 0402
R427	1430796	Chip resistor	47 k	5 % 0.063 W 0402
R428	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R429	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R430	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R431	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R432	1430788	Chip resistor	22 k	5 % 0.063 W 0402
R433	1430792	Chip resistor	33 k	5 % 0.063 W 0402
R434	1430754	Chip resistor	1.0 k	5 % 0.063 W 0402
R435	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R436	1430814	Chip resistor	270 k	5 % 0.063 W 0402
R437	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R438	1430754	Chip resistor	1.0 k	5 % 0.063 W 0402
R439	1430754	Chip resistor	1.0 k	5 % 0.063 W 0402
R440	1430744	Chip resistor	470	5 % 0.063 W 0402
R441	1430754	Chip resistor	1.0 k	5 % 0.063 W 0402
R442	1430828	Chip resistor	820 k	5 % 0.063 W 0402
R443	1430798	Chip resistor	56 k	5 % 0.063 W 0402
R444	1430792	Chip resistor	33 k	5 % 0.063 W 0402
R445	1430792	Chip resistor	33 k	5 % 0.063 W 0402
R447	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R448	1430754	Chip resistor	1.0 k	5 % 0.063 W 0402
R449	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R450	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R451	1430792	Chip resistor	33 k	5 % 0.063 W 0402
R452	1430754	Chip resistor	1.0 k	5 % 0.063 W 0402
R453	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R454	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R455	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R456	1430254	Chip resistor	6.8 k	2 % 0.063 W 0603

R457	1413850	Chip resistor	4.7	5 % 0.1 W 0805
R458	1430294	Chip resistor	220 k	2 % 0.063 W 0603
R459	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R460	1430816	Chip resistor	330 k	5 % 0.063 W 0402
R461	1430812	Chip resistor	220 k	5 % 0.063 W 0402
R462	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R463	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R464	1430248	Chip resistor	3.9 k	2 % 0.063 W 0603
R465	1430248	Chip resistor	3.9 k	2 % 0.063 W 0603
R466	1430776	Chip resistor	8.2 k	5 % 0.063 W 0402
R467	1430746	Chip resistor	560	5 % 0.063 W 0402
R468	1430746	Chip resistor	560	5 % 0.063 W 0402
R470	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R471	1430764	Chip resistor	3.3 k	5 % 0.063 W 0402
R472	1414029	Chip resistor	3.3 k	5 % 0.1 W 0805
R473	1430790	Chip resistor	27 k	5 % 0.063 W 0402
R474	1430742	Chip resistor	390	5 % 0.063 W 0402
R475	1430788	Chip resistor	22 k	5 % 0.063 W 0402
R476	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R478	1430796	Chip resistor	47 k	5 % 0.063 W 0402
R479	1430802	Chip resistor	82 k	5 % 0.063 W 0402
R481	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R482	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R484	1430812	Chip resistor	220 k	5 % 0.063 W 0402
R485	1430826	Chip resistor	680 k	5 % 0.063 W 0402
R486	1430780	Chip resistor	12 k	5 % 0.063 W 0402
R487	1430788	Chip resistor	22 k	5 % 0.063 W 0402
R489	1430780	Chip resistor	12 k	5 % 0.063 W 0402
R490	1430822	Chip resistor	560 k	5 % 0.063 W 0402
R491	1430806	Chip resistor	120 k	5 % 0.063 W 0402
R492	1430796	Chip resistor	47 k	5 % 0.063 W 0402
R493	1430812	Chip resistor	220 k	5 % 0.063 W 0402
R494	1430796	Chip resistor	47 k	5 % 0.063 W 0402
R495	1430814	Chip resistor	270 k	5 % 0.063 W 0402
R496	1430788	Chip resistor	22 k	5 % 0.063 W 0402
R497	1430796	Chip resistor	47 k	5 % 0.063 W 0402
R498	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R499	1430810	Chip resistor	180 k	5 % 0.063 W 0402
R500	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R501				
R504	1430754	Chip resistor	1.0 k	5 % 0.063 W 0402
R506	1430792	Chip resistor	33 k	5 % 0.063 W 0402

R508	1430754	Chip resistor	1.0 k	5 % 0.063 W 0402
R510	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R512	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R513	1430780	Chip resistor	12 k	5 % 0.063 W 0402
R514	1430790	Chip resistor	27 k	5 % 0.063 W 0402
R515	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R516	1430744	Chip resistor	470	5 % 0.063 W 0402
R517	1430812	Chip resistor	220 k	5 % 0.063 W 0402
R701	1430754	Chip resistor	1.0 k	5 % 0.063 W 0402
R702	1430726	Chip resistor	100	5 % 0.063 W 0402
R705	1430712	Chip resistor	27	5 % 0.063 W 0402
R706	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
R707	1800673	NTC resistor	15 k	10 % 0.12 W 0805
R708	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R709	1430778	Chip resistor	10 k	5 % 0.063 W 0402
R710	1430804	Chip resistor	100 k	5 % 0.063 W 0402
R716	1430762	Chip resistor	2.2 k	5 % 0.063 W 0402
C001	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C002	2320618	Ceramic cap.	4.7 n	5 % 25 V 0402
C003	2320107	Ceramic cap.	10 n	5 % 50 V 0603
C004	2604022	Tantalum cap.	0.1 u	20 % 35 V 3.2x1.6x1.6
C005	2320520	Ceramic cap.	2.2 p	0.25 % 50 V 0402
C006	2320618	Ceramic cap.	4.7 n	5 % 25 V 0402
C007	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C008	2610016	Tantalum cap.	0.47 u	10 % 25 V 3.2x1.6x1.6
C009	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C010	2320618	Ceramic cap.	4.7 n	5 % 25 V 0402
C011	2320618	Ceramic cap.	4.7 n	5 % 25 V 0402
C012	2320520	Ceramic cap.	2.2 p	0.25 % 50 V 0402
C013	2320540	Ceramic cap.	15 p	5 % 50 V 0402
C014	2604329	Tantalum cap.	4.7 u	20 % 10 V 3.5x2.8x1.9
C015	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C016	2604199	Tantalum cap.	2.2 u	20 % 3.2x1.6x1.6
C017	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C018	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C019	2604287	Tantalum cap.	3.3 u	20 % 16 V 3.5x2.8x1.9
C020	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C021	2320520	Ceramic cap.	2.2 p	0.25 % 50 V 0402
C022	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C023	2320584	Ceramic cap.	1.0 n	5 % 50 V 0402
C025	2320508	Ceramic cap.	1.0 p	0.25 % 50 V 0402
C027	2320604	Ceramic cap.	18 p	5 % 50 V 0402

C028	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C029	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C031	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C032	2320560	Ceramic cap.	100 p	5 % 50 V 0402
C034	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C035	2320538	Ceramic cap.	12 p	5 % 50 V 0402
C036	2320538	Ceramic cap.	12 p	5 % 50 V 0402
C037	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C038	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C039	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C040	2320107	Ceramic cap.	10 n	5 % 50 V 0603
C041	2320538	Ceramic cap.	12 p	5 % 50 V 0402
C042	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C044	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C045	2320532	Ceramic cap.	6.8 p	0.25 % 50 V 0402
C046	2320602	Ceramic cap.	4.7 p	0.25 % 50 V 0402
C047	2320526	Ceramic cap.	3.9 p	0.25 % 50 V 0402
C048	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C049	2320602	Ceramic cap.	4.7 p	0.25 % 50 V 0402
C050	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C051	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C052	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C053	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C054	2340010	Ceramic cap.	27 n	10 % 50 V 0805
C055	2340014	Ceramic cap.	47 n	10 % 25 V 0805
C056	2604329	Tantalum cap.	4.7 u	20 % 10 V 3.5x2.8x1.9
C057	2320107	Ceramic cap.	10 n	5 % 50 V 0603
C058	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C059	2320522	Ceramic cap.	2.7 p	0.25 % 50 V 0402
C060	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C061	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C062	2320536	Ceramic cap.	10 p	5 % 50 V 0402
C063	2320618	Ceramic cap.	4.7 n	5 % 25 V 0402
C064	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C065	2320560	Ceramic cap.	100 p	5 % 50 V 0402
C066	2320520	Ceramic cap.	2.2 p	0.25 % 50 V 0402
C067	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C068	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C069	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C070	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C071	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C072	2320584	Ceramic cap.	1.0 n	5 % 50 V 0402

C073	2320556	Ceramic cap.	68 p	5 % 50 V 0402
C074	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C075	2320264	Ceramic cap.	330 p	2 % 50 V 0603
C077	2320618	Ceramic cap.	4.7 n	5 % 25 V 0402
C078	2604209	Tantalum cap.	1.0 u	20 % 16 V 3.2x1.6x1.6
C079	2604199	Tantalum cap.	2.2 u	20 % 3.2x1.6x1.6
C080	2604209	Tantalum cap.	1.0 u	20 % 16 V 3.2x1.6x1.6
C081	2320560	Ceramic cap.	100 p	5 % 50 V 0402
C082	2320620	Ceramic cap.	10 n	5 % 16 V 0402
C083	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C084	2320524	Ceramic cap.	3.3 p	0.25 % 50 V 0402
C085	2604199	Tantalum cap.	2.2 u	20 % 3.2x1.6x1.6
C086	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C087	2320540	Ceramic cap.	15 p	5 % 50 V 0402
C088	2604199	Tantalum cap.	2.2 u	20 % 3.2x1.6x1.6
C089	2320534	Ceramic cap.	8.2 p	0.25 % 50 V 0402
C090	2320602	Ceramic cap.	4.7 p	0.25 % 50 V 0402
C091	2320518	Ceramic cap.	1.8 p	0.25 % 50 V 0402
C092	2320604	Ceramic cap.	18 p	5 % 50 V 0402
C093	2320602	Ceramic cap.	4.7 p	0.25 % 50 V 0402
C094	2320526	Ceramic cap.	3.9 p	0.25 % 50 V 0402
C095	2320544	Ceramic cap.	22 p	5 % 50 V 0402
C096	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C097	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C098	2320520	Ceramic cap.	2.2 p	0.25 % 50 V 0402
C099	2320534	Ceramic cap.	8.2 p	0.25 % 50 V 0402
C100	2320027	Ceramic cap.	4.7 p	0.25 % 50 V 0603
C101	2320618	Ceramic cap.	4.7 n	5 % 25 V 0402
C102	2320560	Ceramic cap.	100 p	5 % 50 V 0402
C103	2340014	Ceramic cap.	47 n	10 % 25 V 0805
C104	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C105	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C106	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C107	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C108	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C109	2604287	Tantalum cap.	3.3 u	20 % 16 V 3.5x2.8x1.9
C110	2604199	Tantalum cap.	2.2 u	20 % 3.2x1.6x1.6
C111	2604199	Tantalum cap.	2.2 u	20 % 3.2x1.6x1.6
C112	2320524	Ceramic cap.	3.3 p	0.25 % 50 V 0402
C113	2604209	Tantalum cap.	1.0 u	20 % 16 V 3.2x1.6x1.6
C114	2320560	Ceramic cap.	100 p	5 % 50 V 0402
C115	2604209	Tantalum cap.	1.0 u	20 % 16 V 3.2x1.6x1.6

C116	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C117	2604199	Tantalum cap.	2.2 u	20 % 3.2x1.6x1.6
C118	2320526	Ceramic cap.	3.9 p	0.25 % 50 V 0402
C119	2320618	Ceramic cap.	4.7 n	5 % 25 V 0402
C120	2320560	Ceramic cap.	100 p	5 % 50 V 0402
C122	2320602	Ceramic cap.	4.7 p	0.25 % 50 V 0402
C124	2320620	Ceramic cap.	10 n	5 % 16 V 0402
C125	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C126	2320524	Ceramic cap.	3.3 p	0.25 % 50 V 0402
C127	2320107	Ceramic cap.	10 n	5 % 50 V 0603
C129	2320530	Ceramic cap.	5.6 p	0.25 % 50 V 0402
C130	2320620	Ceramic cap.	10 n	5 % 16 V 0402
C131	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C132	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C133	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C134	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C135	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C136	2320530	Ceramic cap.	5.6 p	0.25 % 50 V 0402
C137	2320107	Ceramic cap.	10 n	5 % 50 V 0603
C138	2320107	Ceramic cap.	10 n	5 % 50 V 0603
C139	2320536	Ceramic cap.	10 p	5 % 50 V 0402
C143	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C144	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C145	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C146	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C160	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C401	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C402	2320107	Ceramic cap.	10 n	5 % 50 V 0603
C403	2320540	Ceramic cap.	15 p	5 % 50 V 0402
C404	2320540	Ceramic cap.	15 p	5 % 50 V 0402
C405	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C406	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C408	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C409	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C410	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C412	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C413	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C414	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C415	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C416	2320107	Ceramic cap.	10 n	5 % 50 V 0603
C417	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C418	2307816	Ceramic cap.	47 n	20 % 25 V 0805

C419	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C420	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C421	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C422	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C423	2320582	Ceramic cap.	820 p	5 % 50 V 0402
C424	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C425	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C426	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C427	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C428	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C429	2320107	Ceramic cap.	10 n	5 % 50 V 0603
C430	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C431	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C432	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C433	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C434	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C436	2320620	Ceramic cap.	10 n	5 % 16 V 0402
C437	2604209	Tantalum cap.	1.0 u	20 % 16 V 3.2x1.6x1.6
C438	2604209	Tantalum cap.	1.0 u	20 % 16 V 3.2x1.6x1.6
C439	2604209	Tantalum cap.	1.0 u	20 % 16 V 3.2x1.6x1.6
C440	2604209	Tantalum cap.	1.0 u	20 % 16 V 3.2x1.6x1.6
C441	2320584	Ceramic cap.	1.0 n	5 % 50 V 0402
C442	2320560	Ceramic cap.	100 p	5 % 50 V 0402
C443	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C444	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C446	2604287	Tantalum cap.	3.3 u	20 % 16 V 3.5x2.8x1.9
C447	2604127	Tantalum cap.	1.0 u	20 % 35 V 3.5x2.8x1.9
C448	2604022	Tantalum cap.	0.1 u	20 % 35 V 3.2x1.6x1.6
C451	2320584	Ceramic cap.	1.0 n	5 % 50 V 0402
C452	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C454	2604079	Tantalum cap.	0.22 u	20 % 35 V 3.2x1.6x1.6
C455	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C456	2320107	Ceramic cap.	10 n	5 % 50 V 0603
C457	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C458	2320552	Ceramic cap.	47 p	5 % 50 V 0402
C459	2307816	Ceramic cap.	47 n	20 % 25 V 0805
C460	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C461	2604209	Tantalum cap.	1.0 u	20 % 16 V 3.2x1.6x1.6
C462	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C463	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C464	2320546	Ceramic cap.	27 p	5 % 50 V 0402
C465	2320546	Ceramic cap.	27 p	5 % 50 V 0402

C472	2320546	Ceramic cap.	27 p	5 % 50 V 0402	
C473	2320546	Ceramic cap.	27 p	5 % 50 V 0402	
C500	2320552	Ceramic cap.	47 p	5 % 50 V 0402	
C501	2320552	Ceramic cap.	47 p	5 % 50 V 0402	
C502	2604199	Tantalum cap.	2.2 u	20 % 3.2x1.6x1.6	
C503	2604199	Tantalum cap.	2.2 u	20 % 3.2x1.6x1.6	
C504	2320546	Ceramic cap.	27 p	5 % 50 V 0402	
C505	2320546	Ceramic cap.	27 p	5 % 50 V 0402	
C506	2320546	Ceramic cap.	27 p	5 % 50 V 0402	
C700	2307816	Ceramic cap.	47 n	20 % 25 V 0805	
C701	2307816	Ceramic cap.	47 n	20 % 25 V 0805	
C702	2307816	Ceramic cap.	47 n	20 % 25 V 0805	
C703	2320556	Ceramic cap.	68 p	5 % 50 V 0402	
C705	2320546	Ceramic cap.	27 p	5 % 50 V 0402	
C706	2320546	Ceramic cap.	27 p	5 % 50 V 0402	
C719	2307816	Ceramic cap.	47 n	20 % 25 V 0805	
L001	3641322	Chip coil	8. Q n	10 % Q=50/50 MHz 1008	
L002	3660102	Coil adj.		2 % Q=80 5X5	
L003	3641202	Chip coil	10 n	10 % Q=15/100 MHz 1008	
L004	3641220	Chip coil	39 n	20 % Q=20/100 MHz 1008	
L005	3641220	Chip coil	39 n	20 % Q=20/100 MHz 1008	
L006	3641322	Chip coil	8. Q n	10 % Q=50/50 MHz 1008	
L007	3641256	Chip coil	470 n	5 % Q=30/25.2M 1008	
L008	3641544	Chip coil	68.Q n	10 % Q=40/200 MHz 0805	
L009	3640406	Transformer balun q33 45mhz smd			SMD
L010	3641544	Chip coil	68.Q n	10 % Q=40/200 MHz 0805	
L012	3641202	Chip coil	10 n	10 % Q=15/100 MHz 1008	
L013	3641544	Chip coil	68.Q n	10 % Q=40/200 MHz 0805	
L014	3641544	Chip coil	68.Q n	10 % Q=40/200 MHz 0805	
L015	3641544	Chip coil	68.Q n	10 % Q=40/200 MHz 0805	
L016	3641544	Chip coil	68.Q n	10 % Q=40/200 MHz 0805	
L017	3641322	Chip coil	8. Q n	10 % Q=50/50 MHz 1008	
L018	3641544	Chip coil	68.Q n	10 % Q=40/200 MHz 0805	
L019	3641328	Chip coil	39 n	10 % Q=50/50 MHz 1008	
L030	3641532	Chip coil	22.Q n	20 % Q=45/250 MHz 0805	
L100	3606946	Ferrite bead 0.2r 26r/100mhz 1206			1206
G001	4510048	VCTCXO 14.85 M		+–2.5PPM	
G400	4510056	Crystal	4.800 M	+–50PPM 11.8X5.5	11.8x5.5
F001	5119002	SM, fuse f2.0a 32v	120	1206	
Z002	4505696	XTAL filter	45 M	+–10KHZ/3DB UM4	
Z003	4556931	Cer.filt 450+–12.5khz 9.5x6.5rad			9.5x6.5rad
Z004	4512022	Dupl 872–905/917–950mhz 55.1x12			55.1x12

Z005	4511034	Saw filter	933.5+–16.5 M	5.4x4.7
Z006	4505696	XTAL filter	45 M	+–10KHZ/3DB UM4
V001	4210058	Transistor	MRF947	npn 10 V 50 mA SOT323
V002	4200917	Transistor	BC848B/BCW32	npn 30 V 100 mA SOT23
V003	4210066	Transistor	BFR93AW	npn 12 V 35 mA SOT323
V004	4210066	Transistor	BFR93AW	npn 12 V 35 mA SOT323
V005	4210058	Transistor	MRF947	npn 10 V 50 mA SOT323
V006	4219904	Transistor x 2	2 UMX1	npn 40 V SOT363
V007	4210342	MosFet GaAs		SOT223
V008	4210058	Transistor	MRF947	npn 10 V 50 mA SOT323
V009	4210079	Transistor	BFS17	npn 15 V 50 mA SOT23
V010	4219904	Transistor x 2	2 UMX1	npn 40 V SOT363
V011	4340172	IC, RF amp.	20DBM/850MHZ/NF2.5	SOT143
V012	4210054	Transistor	FMMT589	pnp 30 V 1 A SOT23
V013	4219922	Transistor x 2		UM6
V014	4219922	Transistor x 2		UM6
V015	4219904	Transistor x 2	2 UMX1	npn 40 V SOT363
V016	4210132	Transistor	SOT323	
V018	4210162	Transistor	NE85630	npn 12 V 0.1 A SOT323
V020	4210054	Transistor	FMMT589	pnp 30 V 1 A SOT23
V021	4219904	Transistor x 2	2 UMX1	npn 40 V SOT363
V202	4111092	Cap. diode	BB639	30 V SOD323
V203	4110018	Cap. diode	BB135	30 V SOD323
V204	4110018	Cap. diode	BB135	30 V SOD323
V205	4100177	Sch. diode x 2	BAS70–04	SOT23
V400	4219904	Transistor x 2	2 UMX1	npn 40 V SOT363
V401	4202671	MosFet	BST82	n–ch 80 V 175 mA SOT23
V403	4210020	Transistor	BCP69–25	pnp 20 V 1 A SOT223
V405	4219904	Transistor x 2	2 UMX1	npn 40 V SOT363
V406	4219914	Transistor x 2		SOT363
V411	4219922	Transistor x 2		UM6
V412	4207461	Transistor	BC868–25	npn V SOT89
V413	4219908	Transistor x 2	2 UMT1	pnp 40 V SOT363
V414	4219904	Transistor x 2	2 UMX1	npn 40 V SOT363
V415	4219908	Transistor x 2	2 UMT1	pnp 40 V SOT363
V420	4200226	Darl. transistor	BCV27	npn 30 V 300 mA SOT23
V421	4200226	Darl. transistor	BCV27	npn 30 V 300 mA SOT23
V500	4113828	Trans. supr.	SMBJ28A	DO214AA
V501	4108639	Diode x 2	BAS28	75 V 250 mA SOT143
V506	4110396	Zener diode	BZX84	5 % 3.0 V 0.3 W SOT23
V507	4119902	Dix4 imp11 80v 0.3a 2xcoman	imd	IMD
V508	4115804	Schottky diode	PRLL5817	20 V 1 A SOD87

V510	4100285	Diode x 2	BAV99	70 V 200 mA SER.SOT23
V511	4100285	Diode x 2	BAV99	70 V 200 mA SER.SOT23
V512	4100285	Diode x 2	BAV99	70 V 200 mA SER.SOT23
V514	4100285	Diode x 2	BAV99	70 V 200 mA SER.SOT23
V515	4100285	Diode x 2	BAV99	70 V 200 mA SER.SOT23
V517	4100285	Diode x 2	BAV99	70 V 200 mA SER.SOT23
V700	4207461	Transistor	BC868–25	npn V SOT89
V701	4200917	Transistor	BC848B/BCW32	npn 30 V 100 mA SOT23
V900	4864388	Led	Green	0603
V901	4864388	Led	Green	0603
V902	4864388	Led	Green	0603
V903	4864388	Led	Green	0603
V904	4864388	Led	Green	0603
V905	4864388	Led	Green	0603
V906	4864388	Led	Green	0603
V907	4864388	Led	Green	0603
V908	4864388	Led	Green	0603
V909	4864388	Led	Green	0603
V910	4864388	Led	Green	0603
V911	4864388	Led	Green	0603
V912	4864388	Led	Green	0603
V914	4864388	Led	Green	0603
V916	4100285	Diode x 2	BAV99	70 V 200 mA SER.SOT23
V918	4100285	Diode x 2	BAV99	70 V 200 mA SER.SOT23
D404	4375103	IC, MCU		QFP80A
D406	4370044	IC, EEPROM		NMP70044 SO8S
D700	4309569	IC, 6 x inverter		4069 SO14
N001	4349694	IC, if amp+fm detector sso		TA31136 SSO16
N002	4347350	IC, PLL	TBB206G	SO14/4MM
N004	4349708	IC, prescaler		PMB2312 SO8S
N007	4340138	IC, prescaler		MC12052A SO8S
N008	4349702	IC, mixer 2ghz 3/7v1.6ma so		PMB2330 SO8S
N010	4340148	IC, op.amp		TA75S01 SSO5
N012	4347350	IC, PLL	TBB206G	SO14/4MM
N403	4375026	IC, modem nat so2		NMP75026 SO28W
N407	4375022	IC, PSL p–supp		NMP75022 SO20
N408	4370030	IC, NANTIC		QFP44
J001	5200120	Push button switch 6.4x5.2 smd		
J001	5469788	Syst.conn a		4DC+JACK+10AF+1RF SMSMD
J002	5431708	Flexfoil connect 1x18 0.5mm smd		
J003	5449506	Pin header 1x02 1.25mm angle smd		SMD
	5140455	Cond. microphone 44+–		3DB 2.2K D6.D6.0

9480148 Copper foil a11726
9510164 Screen 2 d11271
9510165 Screen 3 c11272
9510166 Screen 4 c11273
9510167 Screen 5 c11274
9510168 Antenna contact b11114
9510194 Screen 1 c11821
9853969 PCB KS3 49.0X138.09X1.2 M6 2/PA
9853969 PC board KS3 49.0x1.2 m6 2/pa2/PA